

**METHOD AND DEVICE FOR PERCEPTION OF AN OBJECT
BY ITS SHAPE, ITS SIZE AND/OR ITS ORIENTATION**

ABSTRACT OF THE DISCLOSURE

Systems and methods for localizing a shape in a space represented by pixel

5 data forming a multidimensional space i, j , evolving with time, and represented at a
succession of instants T , wherein the data is associated with a temporal parameter A, B, \dots in
the form of digital signals $DATA(A), DATA(B), \dots$ composed of a sequence A_{ijt}, B_{ijt}, \dots of
binary numbers of n bits associated with synchronization signals defining the instant T of the
space and the position i, j in this space, at which the signals A_{ijt}, B_{ijt}, \dots were received. In one
10 embodiment, a) a region of interest of the space is perceived in relation to a statistic criterion
applied to a temporal parameter, b) the main region thus perceived is deactivated, c) repeating
a) and b) in order to perceive other regions of interest inside a non-deactivated space region,
d) the procedure is stopped when a remaining region, non-deactivated, in the space does not
provide a region of interest corresponding to the statistic criterion, e) a counter is incremented
15 for each consecutive valid frame for each region of interest thus perceived, and f) for each
region of interest thus perceived, the center of gravity is stored.

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